Rice University
Department of Statistics
STAT 411/616, Spring 2017

Instructor: *Theofanis Sapatinas* — Office: Duncan Hall, Room 2082

Email: ts45@rice.edu

Course hours: Tue/Thu (9:25-10:40 am), MEL 251 — Office hours: Wed (9:00-11:00 am), Wed (1:30-3:30 pm)

Teaching Assistant: Minjie Wang

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Office: Duncan Hall, Room 1046 — Office hours: Thu (4:00-6:00 pm)

Text: Given the nature of the course, there are no required textbooks. The following standard books, covering various parts of the course, are recommended as references.

C.F.J. Wu and M.S. Hamada. Experiments: Planning, Analysis and Optimization, 2nd Ed, ISBN: 978-0-471-69946-0.

D.C Montgomery. Design and Analysis of Experiments, 5th Ed, ISBN: 0-471-31649-0.

Software: R, download for free from: www.r-project.org.

Grading: 1 in class Exam + 1 take home Exam (35% each) + 4 HWs (7.5% each). Total 100%

Topics: The course is topical. It will cover Design, Modelling and Computation Methods for Inference such as Design of Experiments, Analysis of Variance, Bootstrap, EM-Algorithm, Bayesian Analysis, Generalized Linear Models.

Prerequisites: STAT 310 *Probability and Statistics* and STAT 410 *Linear Regression*.

- Any student with documented disability is requested to see me during the first two weeks of school. Please also see: http://dss.rice.edu/
- The in class and take home Exams are scheduled for March 2nd and April 20th, respectively.
- Rice honor code applies. Please study it: http://honor.rice.edu/
- Any gadget that is powered by electricity is *not* allowed during the Exams.
- No late homework will be accepted.
- For important dates see: https://registrar.rice.edu/content.aspx?id=2147483810